FIG 1

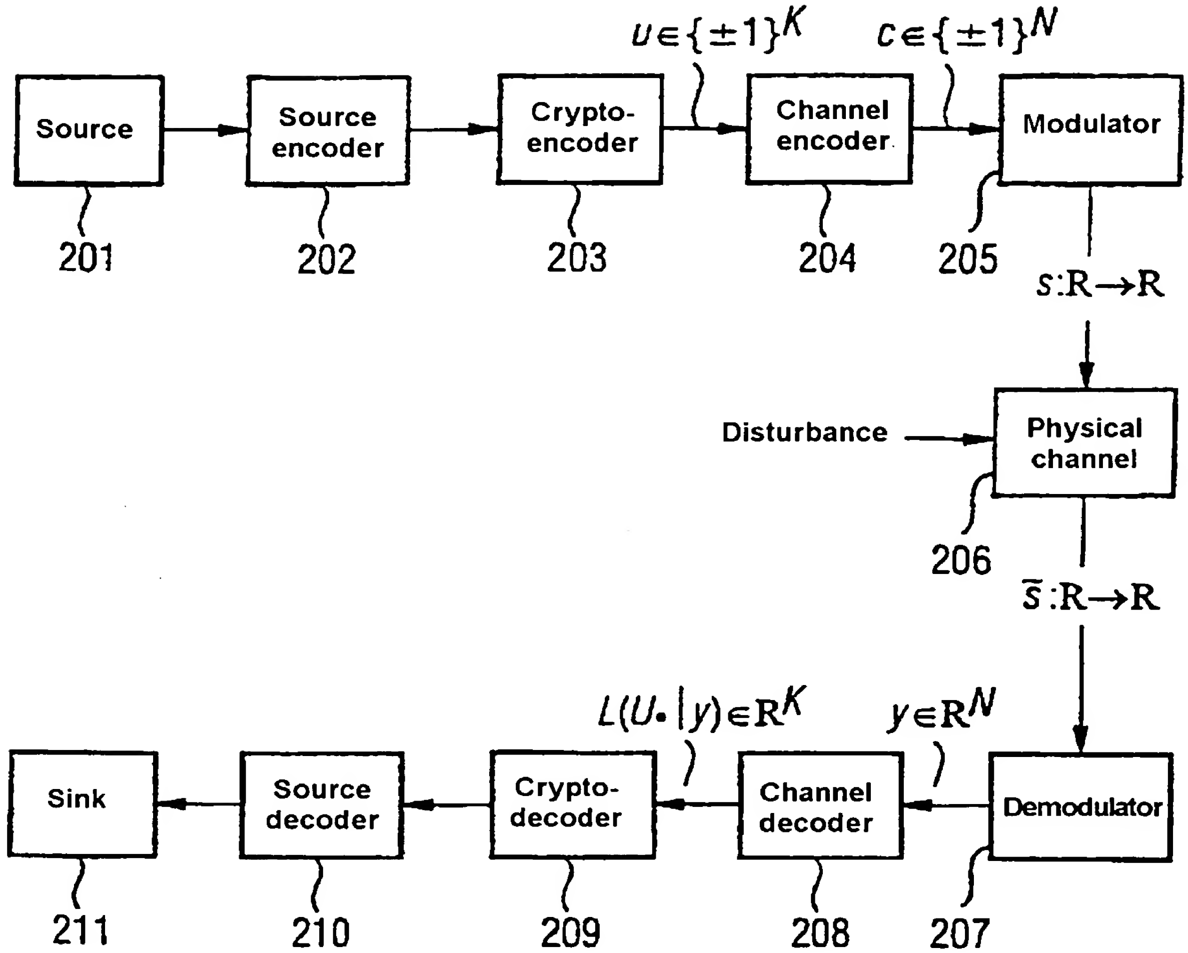


FIG 2

for $q=1,\ldots,Q$:

for $s \in S$:

$$\mu(s,q) := \exp\left(\frac{-1}{2\sigma^2}\Delta F_q(s)\right);$$

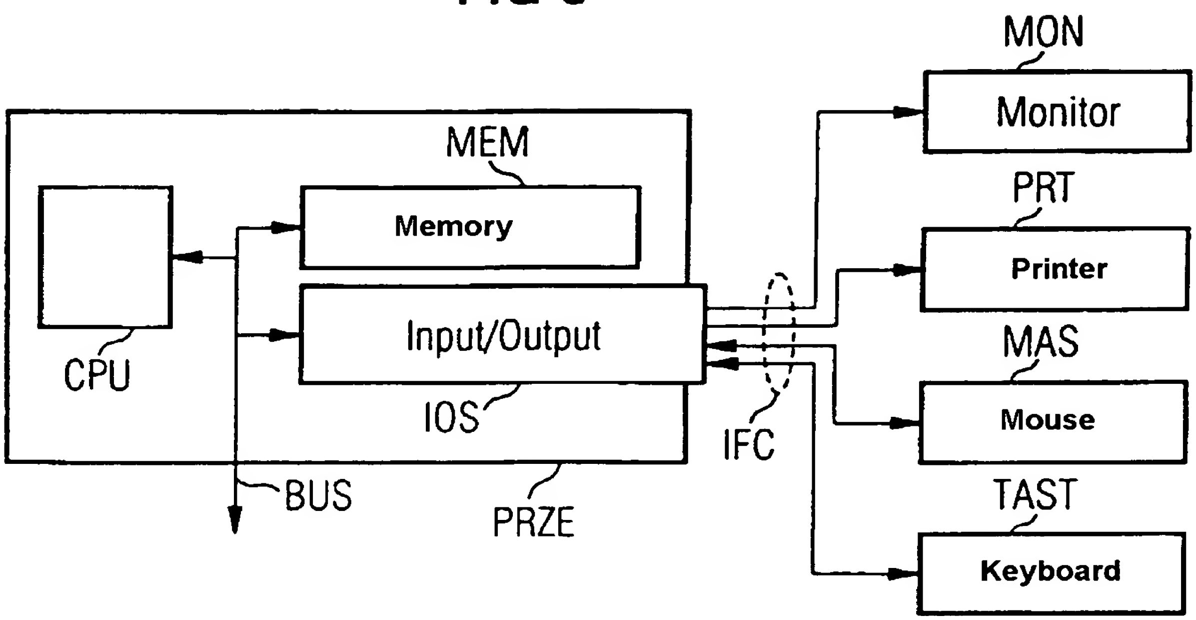
FIG 3

for $s \in S$:	Pre-allocation
$A(s,0 := 0; B(s,0) := 0;$	
$A(s,0 := 1; B(s_0,0) := 1;$	Starting state
for $q = 1,\dots,k$:	Termination
für $s \in S$:	Consideration of all states
$s^+ := T(s, v0);$	Follow-up state
$B(s,q) := \mu(s,Q-(q-1))B(s^+,q-1);$	Calculation of B
for $q = 1,\dots,a-1$:	Progression in the trellis diagram
für $s \in S$:	Consideration of all states
$A(s,q) := A(\hat{T}(v_0,s),q-1);$	Pre-allocation of A
$B(s,k+q) := B(T(s,v_0),k-1+q);$	Pre-allocation of B
für $v \in V \setminus \{v_0\}$	Consideration of all transitions
$A(s,q) := A(s,q)+A(\hat{T}(v,s),q-1);$	Calculation of A
$B(s,k+q) := B(s,k+q)+B(T(s,v_0),k-1+q);$	Calculation of B
$A(s,q) := \mu(s,q) \cdot A(s,q);$	Calculation of A
$B(s,k+q) := \mu(s,a-q) \cdot B(s,k+q);$	Calculation of B
for $i = 1,\dots,K$:	Progression in the trellis diagram
$A^i_{+1} := 0; A^i_{-1} := 0;$	Pre-allocation
$j = 1+[(i-1)/b];$	
for $s \in S$:	Consideration of all states
for $v \in V^i_j(+1)$:	Transitions
$A^i_{+1} := A^i_{+1} + A(s,j-1) \cdot B(T(s,v),Q-j+1);$	Update of $A^i + 1$
for $v \in V^i_j(-1)$:	Transitions
$A^i_{-1} := A^i_{-1} + A(s,j-1) \cdot B(T(s,v),Q-j+1);$	Update of $A^i + 1$
$L(U_i \mid y) := \ln(A^i_{+1}/A^i_{-1});$	i-th soft output

FIG 4

for $s \in S$:	**Pre-allocation**
$A(s,0 := 0; B(s,0) := 0;$	
$A(s_0,0 := 1; B(s_0,0) := 1;$	**Starting state**
for $q = 1,\ldots,k$:	**Termination**
for $s \in S$:	**Consideration of all states**
$s^+ := T(s,+1);$	**Follow-up state**
$B(s,q) := \mu(s,Q-(q-1))B(s^+,q-1);$	**Calculation of B**
for $q = 1,\ldots,a-1$:	**Progression in the trellis diagram**
for $s \in S$:	**Consideration of all states**
$t^+ := \hat{T}(+1,s); t^- := \hat{T}(-1,s);$	**Predecessor states**
$s^+ := T(s,+1); s^- := T(s,-1);$	**Follow-up states**
$A(s,q) := \mu(s,q)\cdot(A(t^+,q-1)+A(t^-,q-1));$	**Calculation of A**
$B(s,k+q) := \mu(s,a-q)\cdot(B(s^+,k-1+q)+B(s^-,k-1+q));$	**Calculation of B**
for $i = 1,\ldots,a$:	**Progression in the trellis diagram**
$A^i_{+1} := 0; A^i_{-1} := 0;$	**Pre-allocation**
for $s \in S$:	**Consideration of all states**
$s^+ := T(s,+1); s^- := T(s,-1);$	**Follow-up states**
$A^i_{+1} := A^i_{+1} + A(s,i-1)\cdot B(s^+, Q-i+1);$	**Update of A^i + 1**
$A^i_{-1} := A^i_{-1} + A(s,i-1)\cdot B(s^-, Q-i+1);$	**Update of A^i + 1**
$L(U_i \mid y) := \ln(A^i_{+1}/A^i_{-1});$	**i-th soft output**

FIG 5


MON
Monitor
MEM
Memory
PRT
Printer
Input/Output
CPU
MAS
Mouse
IOS
IFC
BUS
PRZE
TAST
Keyboard